

ELECTRICAL SAFETY FOR OSHA 1910 & NFPA 70E 2015 STANDARDS LOW VOLTAGE APPLICATIONS



Significant hazards exist to both personnel and equipment with generation, transmission, and distribution of electricity. The proper use of safety equipment, knowledge of electrical hazards, and knowledge of how to respond in the event of an electrical incident are absolutely critical for all essential qualified electrical workers.

This electrical safety program will provide the student with the information needed to comply with the latest OSHA regulations, NFPA 70E, and UL requirements. The purpose of this course is to provide staff personnel an understanding of the hazards associated with working on or around electricity and to identify the most effective ways to minimize the risks associated with the hazards. Those who work on or near electrical equipment as well as supervisors, managers and safety personnel should attend this course.

Course Duration: 8 Hours

INTRODUCTION

Course Objectives
Required Worker Safety Training

CODES AND STANDARDS

Federal Safety Regulations (OSHA)
Enforcement Agencies
Formal Company Policies

SAFETY FUNDAMENTALS

Safety Engineering
Safety Program Essentials
Elements of Safety Programs

ELECTRIC SHOCK

Nature of Electric Shock
Shock Severity Factors
Response to Shock
Quantifying the Shock Hazard
Mitigation of Shock Hazard
Protective Equipment
Rescuing a Shock Victim

ARC FLASH AND BLAST

Nature of Arc Flash and Blast
Preventions from the Arc Flash/Blast
Personal Protective Equip. Cal/cm²
Boundaries and Incident Energy

SAFE WORK PRACTICES

Employer Responsibilities
Employee Responsibilities
Contractor Responsibilities
Equipment Working Clearances
Preliminary Planning
Selection /Use of Safe Work Practices
Safe Switching Procedures
Performance of LOTO Procedures
Application of Grounding Cables
Release from LOTO & Re-energization
Work On or Near Energized Equipment
Safe Use of Test Equipment
Interlocks - Verification

MAINTENANCE FOR SAFETY

NETA MTS
JTA – JHA - SOS
Disney – ABC-TV standards

SPECIAL SITUATIONS (Additional 4 hours)

RF Power
Low Voltage Systems
Dimmer Racks
Stage Electrical Considerations
UL Standards for Media Maintenance
Production Support

O'Dwyer Technical Services, LLC
6780 Gloria Drive, Suite 39
Sacramento, CA 95831
(T) 916-616-8411; (F) 916-421-5512

joe@odtechservices.com; www.odtechservices.com